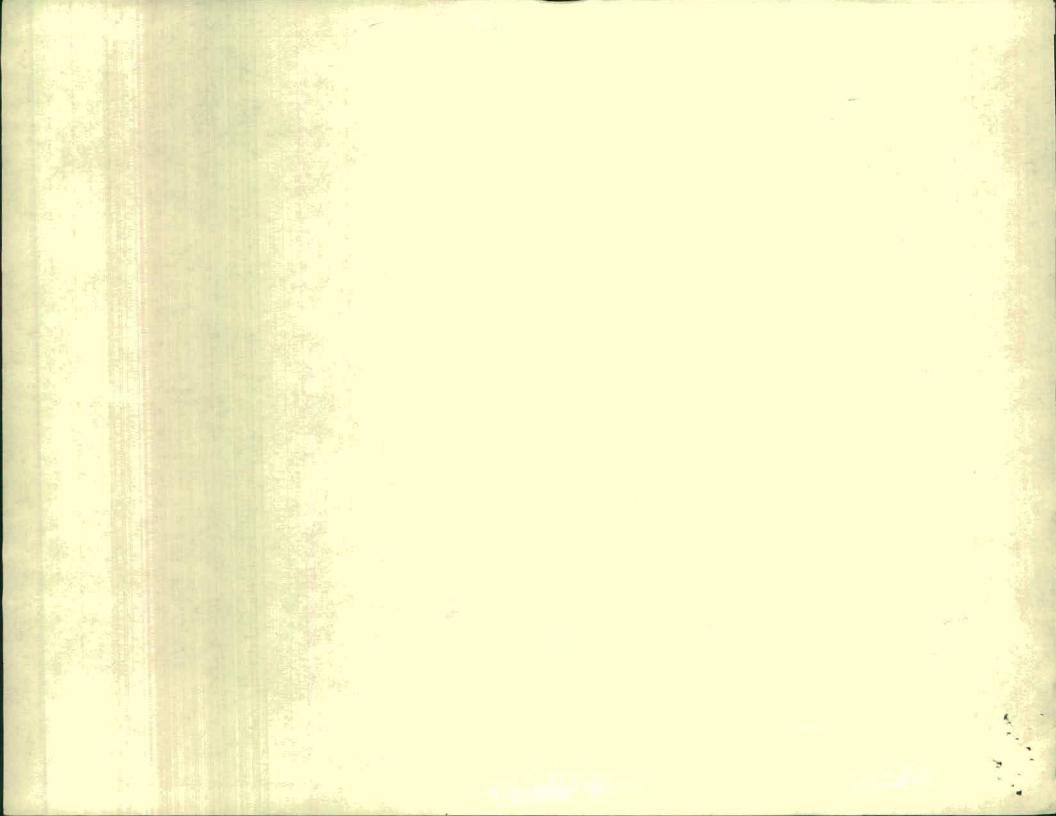
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	Thursday, 5/31/2007 7:23:16 AM Gim Johnston	Dragon	Chast	POSITIVE	OTHOLED 1	urru [1/
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Customer	: CU-DAR001 Dart Helicopters Services		rawing Name	: STERREEASED	GALLET !	DATE
Job Number Estimate Numbe	: 32718 -/ er : 12576					101
P.O. Number	: N/A	P	art Number	: D3562041	1	1.1
This Issue	: 5/31/2007 S.O. No. : HIM		rawing Number	: D3562 UNDER RE	VIEW //	UT
Prsht Rev.	: NQ		roject Number	: N/A	24	
First Issue	: MA Type : LARGE FAB A		rawing Revision	: A		1
Previous Run	: 29411		laterial	: NA		, ,
Written By			ue Date	: 6/11/2007	Qty:	Jum: Each
Checked & Appr						
Comment	: Est Rev:A New Issue 06-11	1-09 JLM				
Additional Produ	uct					
Job Number:						
Seq. #:	Machine Or Operation:	De	scription:	1		1
1.0	D2622120C	Extrusion		я		
				1111		
Com	ment: Qty.: 1.0000 Each(s)/Unit Total:	5.0000 Each(s)			
		Batch:	1000			
	1 D2622-120C Extrusion	B31984	1			
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	Check Material for any Dents or Defects	3		V.	6	
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OOIIII	ment: Qty.: 2.0000 Each(s)/Unit Total:	10.0000 Each(s)			
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	2 D2734 End Cap 329	340=1	×		1/	*
	B 30	883=	9	1	4.00	06.07
.3.0	LARGE FAB 1	LARGE FABRI	CATION RESOURCE	1	0.01.	04.01
Comr	ment: LARGE FABRICATION RESOURCE 1					
		0/	j.,	101		
	1-Cut D2622 extrusion as per Dwg D356	289 a.M	67/00	109		(5)
		01	07.06			0
	2-Deburr and bevel ends for welding	14	07.06	.07	06	1 . /
					120	1.06.01
	3-Weld (1)end cap as per Dwg D3562& (t for foreign object	cts as per QSI 024.		and the second
	A/R Aluminum Rod m102750	0				
		4		- 1	1	
	4-Grind end cap welds flush as per Dwg	D3562	an	07.06.	07	I DE DE ME
	The work of the same of	1 18	The state of		N. T.	No.
8,512		5 32	The state of		45	· 差别
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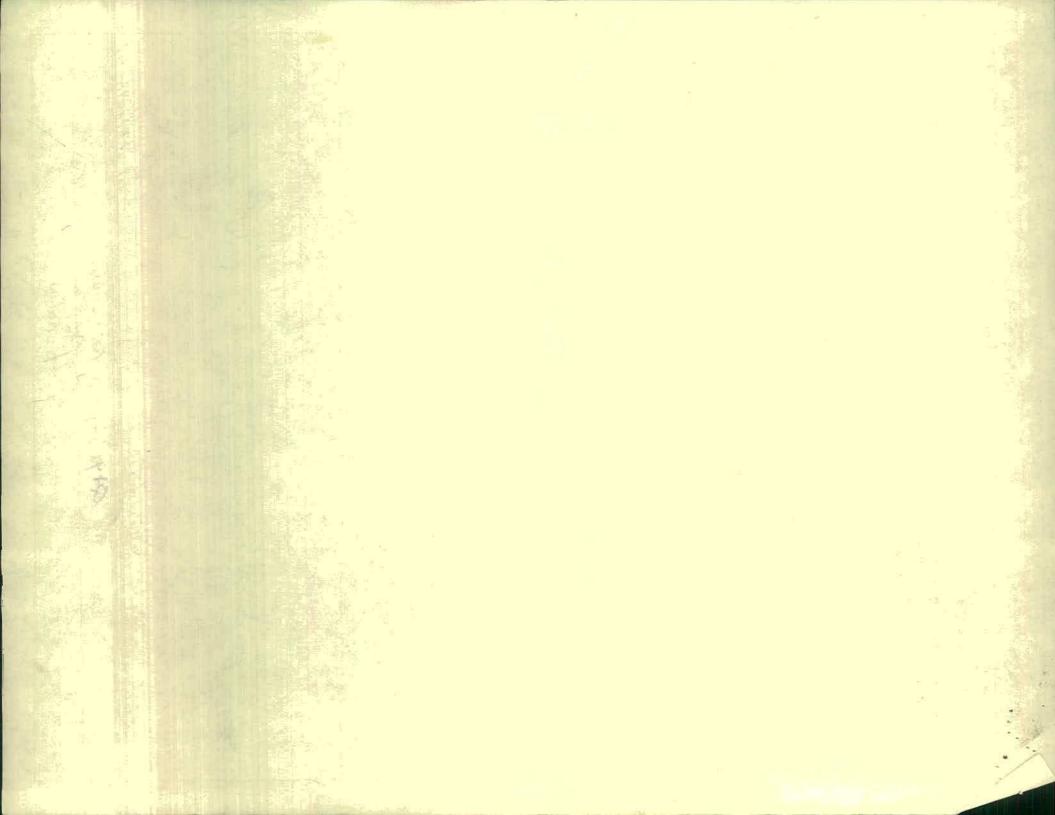
Page 1



Thursday, 5/31/2007 7:23:16 AM User: .4 Kim Johnston **Process Sheet** Drawing Name: STEP WELDMENT Customer: CU-DAR001 Dart Helicopters Services Part Number: D3562041 Job Number: 32718 Job Number: Description: Seq. #: Machine Or Operation: INSPECT WORK TO CURRENT STEP 4.0 Oc9 Morlogor Comment: INSPECT WORK TO CURRENT STEP SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 FF 07-06-11 Drill Rivet holes as per dwg D3562. USING D -60 INSPECT WORK TO CURRENT STEP 7.0 Comment: INSPECT WORK TO CURRENT STEP HAND FINISHING RESOURCE #1 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL CONVERSION 8.0 QC3 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION ARM WELDMENT 9.0 5,0000 Each(s) Comment: Qty.: 1.0000 Each(s)/Unit Total: ARM WELDMENT 643 ARM WELDMENT 10.0 D3560043 Comment: Qty.: 1.0000 Each(s)/Unit Total: 5.0000 Each(s) ARM WELDMENT Batch: 15 3 2446 7.06.01 11.0 MS20600AD4W5 Blind Rivet Comment: Qty.: 36.0000 Each(s)/Unit Total: 180.0000 Each(s) Blind Rivet 9+ (34 SEG WILL CHANGE 917(32) See WIU CHANGE POT.06.11

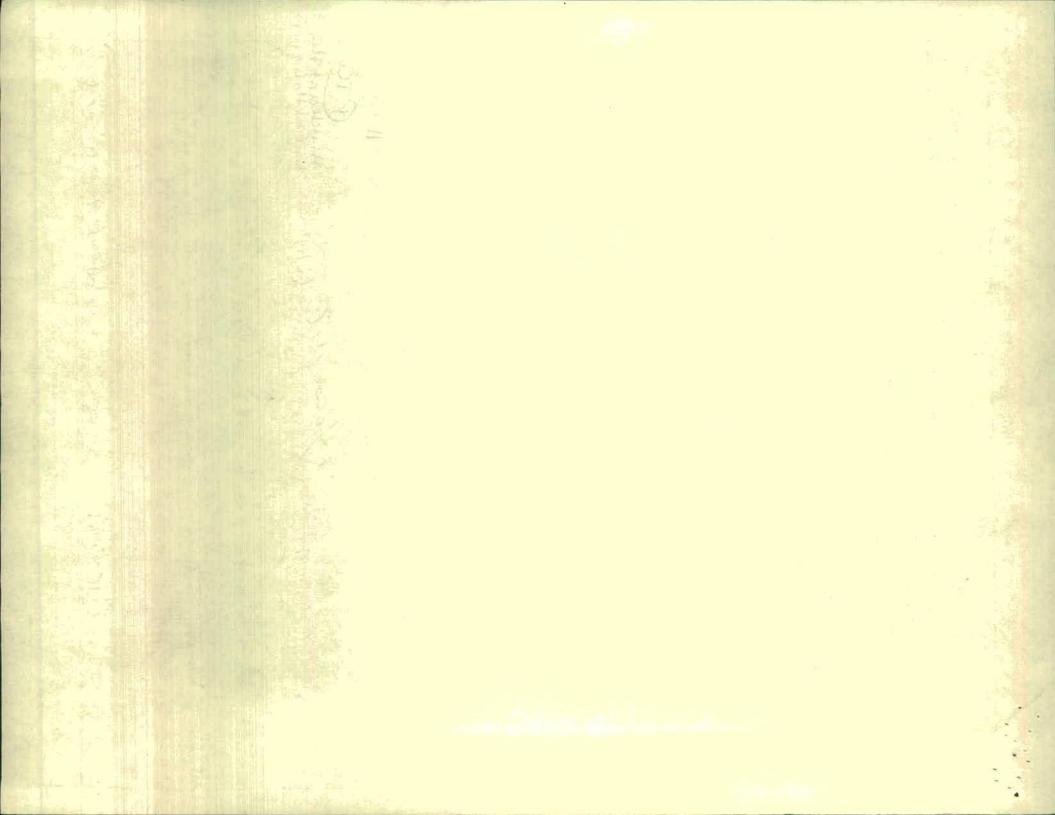
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Page 2

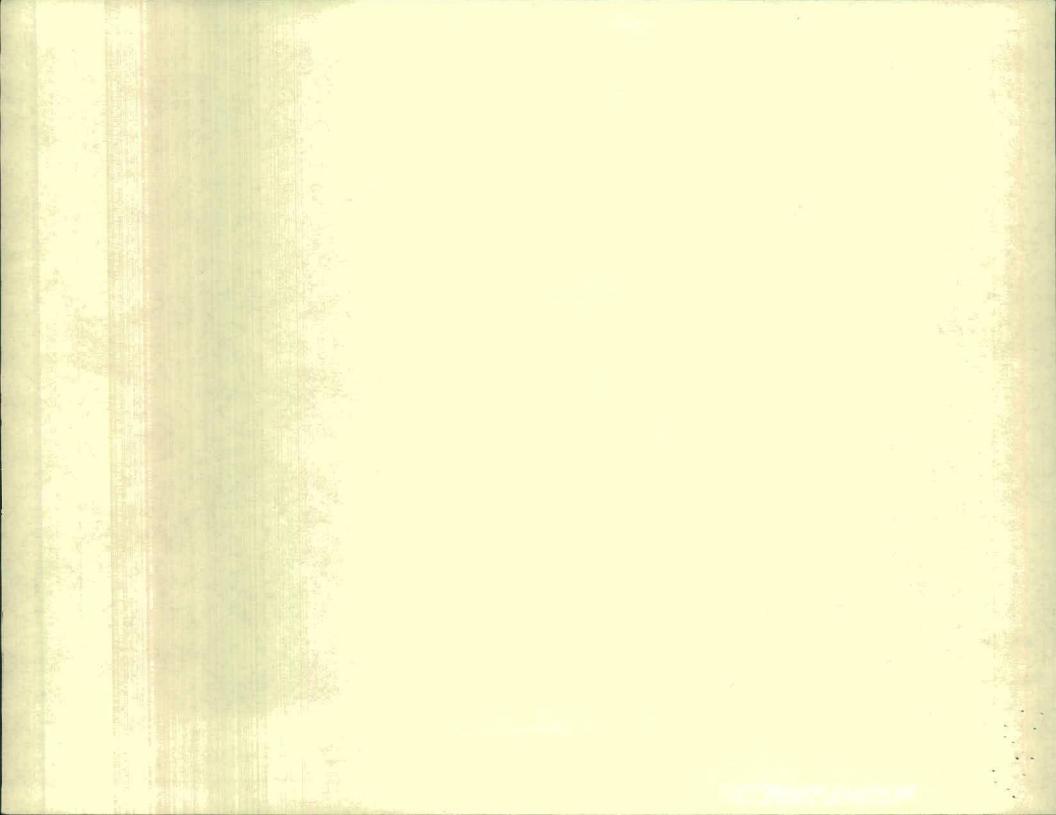


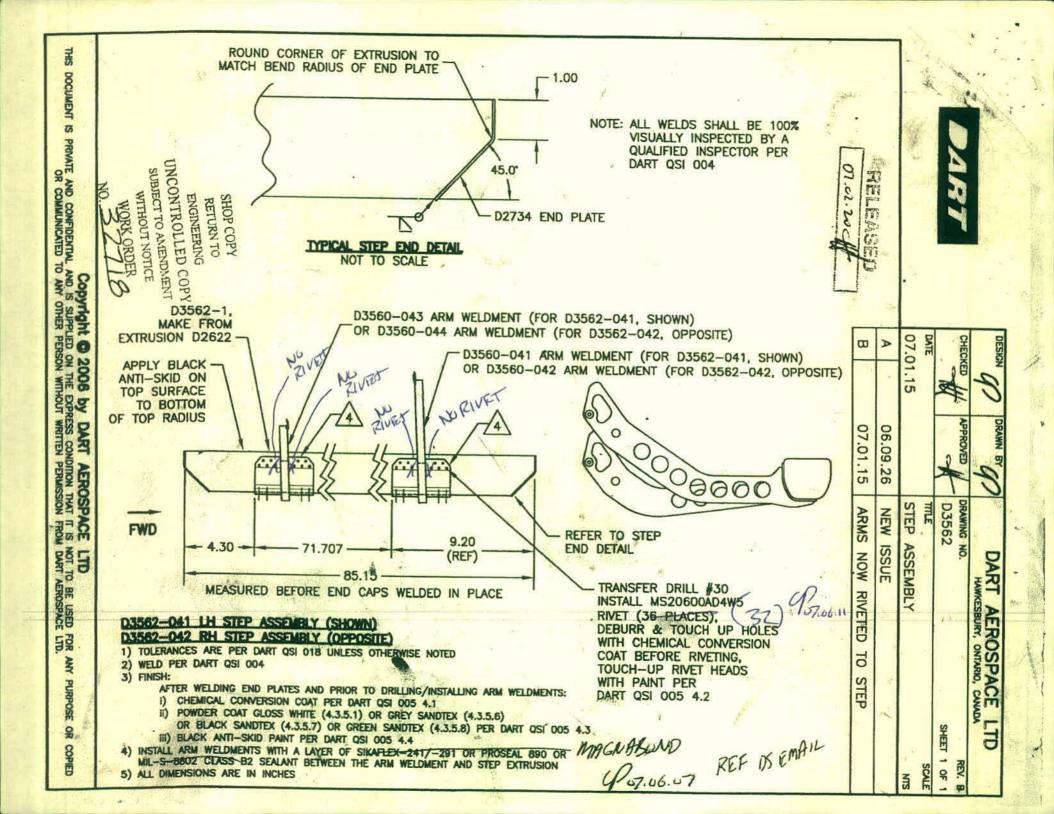
Date: Thursday, 5/31/2007 7:23:16 AM User: 1+ Kim Johnston **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: STEP WELDMENT Job Number: 32718 Part Number: D3562041 Job Number: Seq. #: Machine Or Operation: Description: 12.0 SMALL FAB 1 SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 Rivet legs using Magnabond as per dwg D3562. Ensure to wipe off any exess magnobond of the step 14 07.06.08 AVR Magnabond 6398 13.0 QC5 Comment: INSPEC WORK TO CURRENT STEP 14.0 LARGE FAB 1 LARGE FABRICATION RESOURCE 1 Comment: LARGE FABRICATION RESOURCE 1 1-Weld Remaining end cap as per Dwg D3562& QSI 004. Inspect for foreign objects as per QSI 024. Aluminum Rod M/02756 2-Grind end cap welds flush as per Dwg D3562 15.0 QC9 VISUAL WELDING INSPECTION Comment: VISUAL WELDING INSPECTION 16.0 QC5 INSPECI WORK TO CURRENT STEP Comment: INSPECT WORK TO OURRENT STEP 17.0 Comment: POWDER COATING Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3 18.0 HAND FINISHING HAND FINISHING RESOURCE #1 Comment: HAND FINISHING RESOURCE #1 Wing Walk as per Dwg D3562 and QSI 005 4.4 Form: mrocess

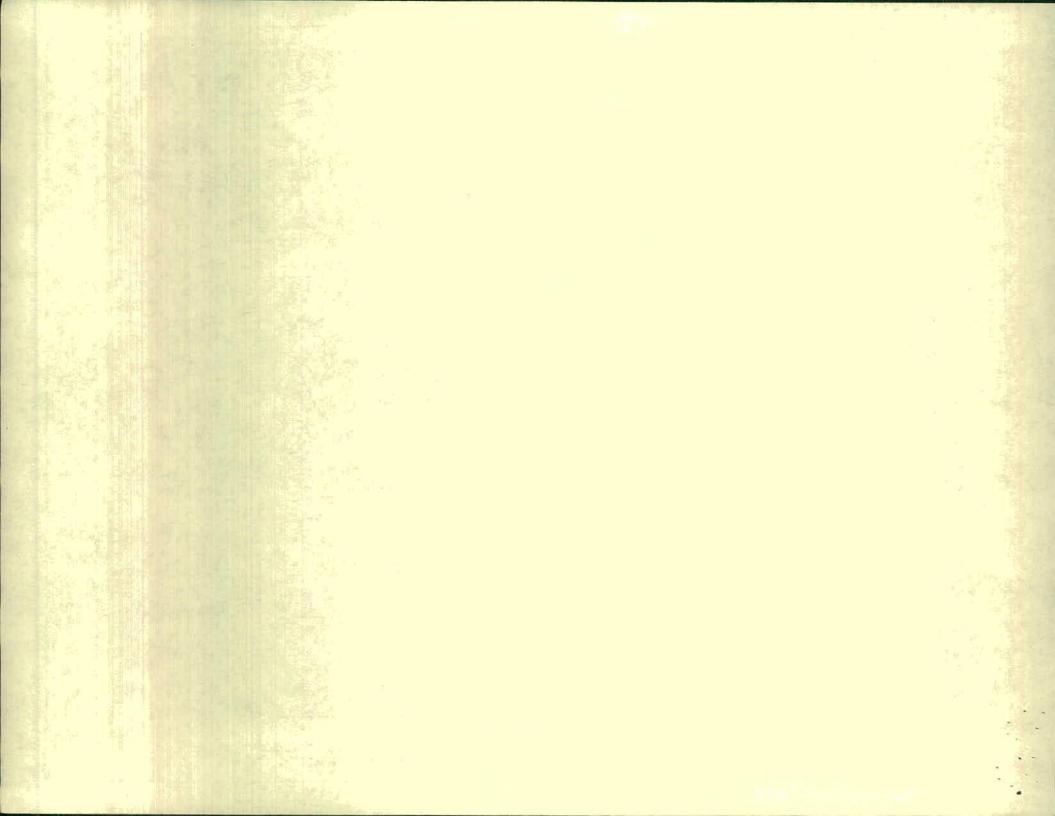
Done 3



Thursday, 5/31/2007 7:23:16 AM Date: User: ** Kim Johnston **Process Sheet** Drawing Name: STEP WELDMENT : Customer: CU-DAR001 Dart Helicopters Services Job Number: 32718 Part Number: D3562041 Job Number: Description: Seq. #: Machine Or Operation: INSPECT POWDER COAT/CHEMICAL CONVERSION 19.0 QC3 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION PACKAGING RESOURCE #1 20.0 SEE WID CHANGE FUR Comment: PACKAGING RESOURCE #1 Pick Assembly Kit Job Completion POSITIVE RECALL AUTH EFFECTIVE_ DATE OF D RELEASED_







From: David Shepherd [dshepherd@dartaero.com]

Sent: June 5, 2007 5:18 PM

To: 'Chris Provencal' Subject: RE: D3562-041/-042

As we have discussed previously, this is acceptable as long as the Magnabond doesn't break down.

David

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: Tuesday, June 05, 2007 11:00 AM **To:** David Shepherd (David Shepherd)

Subject: D3562-041/-042

David.

For the D3562-041/-042 step weldment, as discussed. They want to switch from Sikaflex to Magnabond, and powder coat after final assembly.

As part of this change, the D3560-XX arms won't be powder coated, and the D2808 Bushing won't be assembled until after final assembly of the step weldment.

Since this is the first time trying this, we will ensure that the steps are checked after powdercoating in case the Magnabond doesn anything unexpected (eg. bubbling). If we see anything suspect, we will assemble them the old way.

Is this acceptable.

-Chris

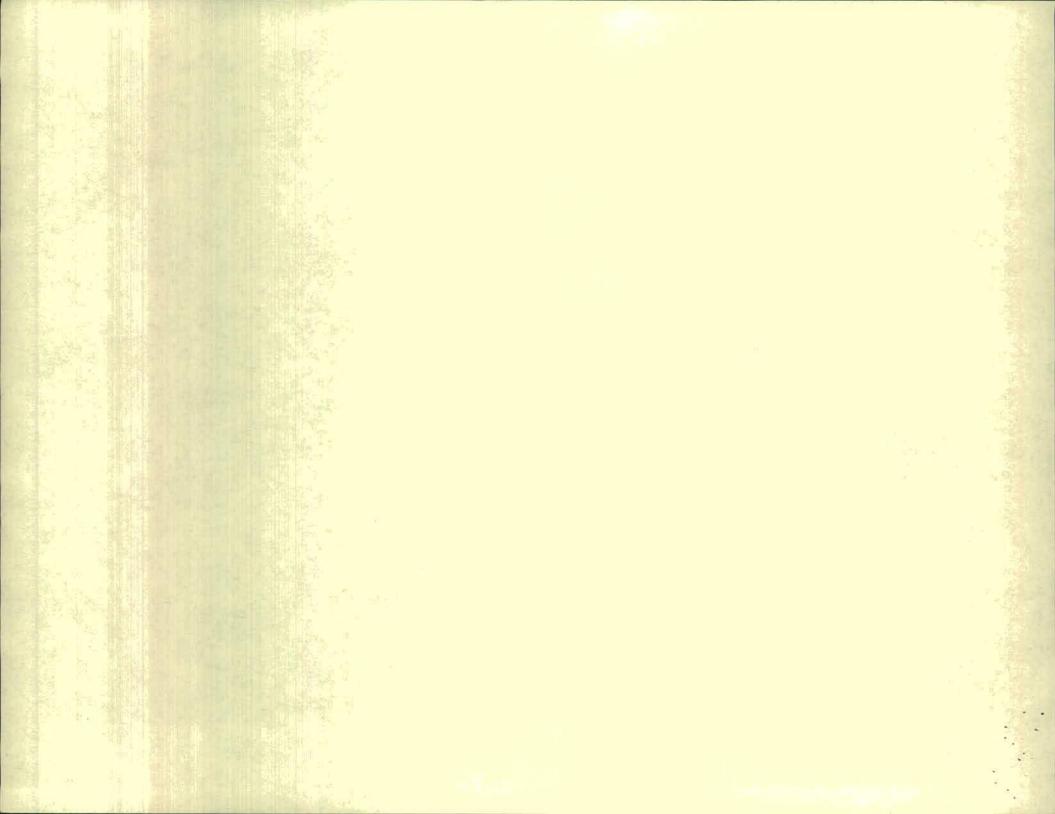
No virus found in this incoming message. Checked by AVG Free Edition.

Version: 7.5.472 / Virus Database: 269.8.9/834 - Release Date: 6/5/2007 2:38 PM

No virus found in this outgoing message.

Checked by AVG Free Edition.

Version: 7.5.472 / Virus Database: 269.8.9/834 - Release Date: 6/5/2007 2:38 PM



From: David Shepherd [dshepherd@dartaero.com]

Sent: June 5, 2007 12:26 PM

To: 'Chris Provencal'

Subject: RE: D3560-041/-042/-043/-044

Go ahead.

David

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: Tuesday, June 05, 2007 9:55 AM **To:** David Shepherd (David Shepherd) **Subject:** D3560-041/-042/-043/-044

David.

This is sort of a rush: dwg D3560 Rev.B (step weldment for -033/-034 steps) is not calling up the D2808 Bushing. It is missing the "Press fit D2808 Bushing after powder coat".

We will correct this, but for the time being: is it acceptable to press fit a D2808 Bushing into the D3560-041/-042/-043-044 as the design originally intended?

-Chris

No virus found in this incoming message.

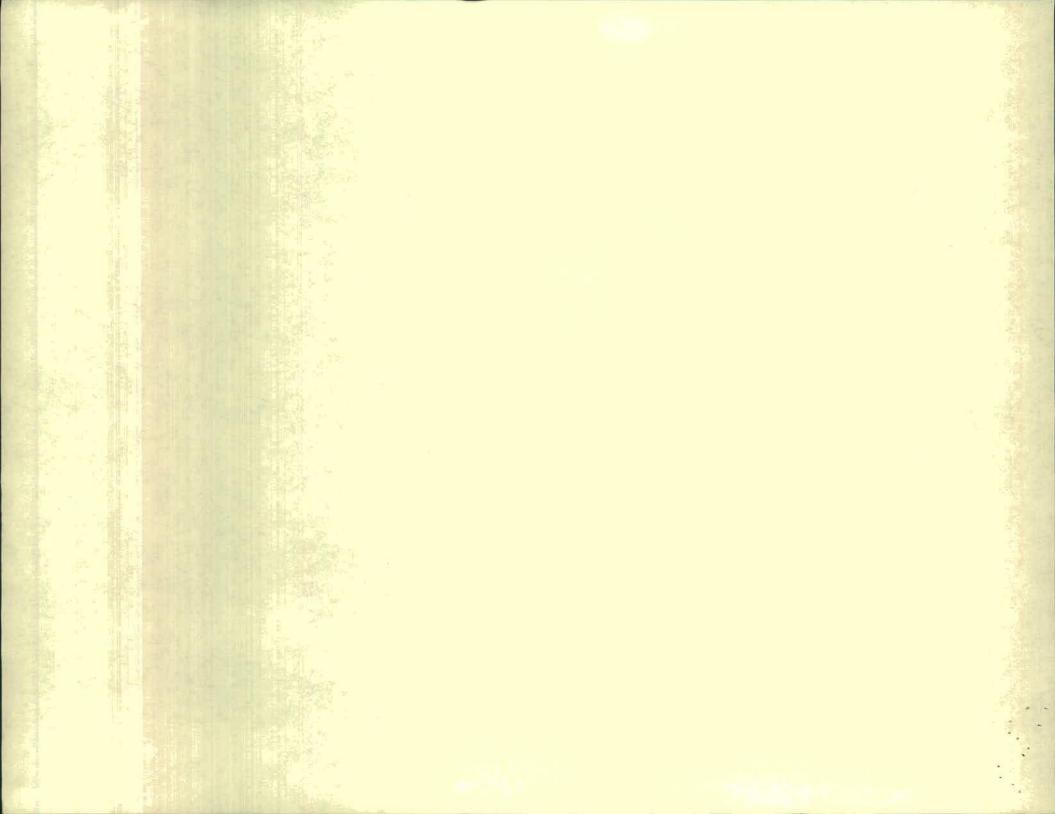
Checked by AVG Free Edition.

Version: 7.5.472 / Virus Database: 269.8.9/834 - Release Date: 6/5/2007 2:38 PM

No virus found in this outgoing message.

Checked by AVG Free Edition.

Version: 7.5.472 / Virus Database: 269.8.9/834 - Release Date: 6/5/2007 2:38 PM



From: David Shepherd [dshepherd@dartaero.com]

Sent: June 7, 2007 3:37 PM

To: 'Chris Provencal'
Subject: RE: D3562-041/-042

As we discussed, I think this change is acceptable without further qualification.

David

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: Thursday, June 07, 2007 1:15 PM **To:** David Shepherd (David Shepherd)

Subject: D3562-041/-042

David,

For the D3562-041/-042 Step Assembly, we need to remove qty(1) rivet from each D3560-XX Arm weldments attachments for manufacturability. There will be a total qty(34) MS20600AD4 rivets instead of qty(36) per step. The rivet will be removed from the side surface of the step. Remaining shear would be 350 lbs x 16 rivets = 5600 lbs per arm attachments.

-Chris

No virus found in this incoming message.

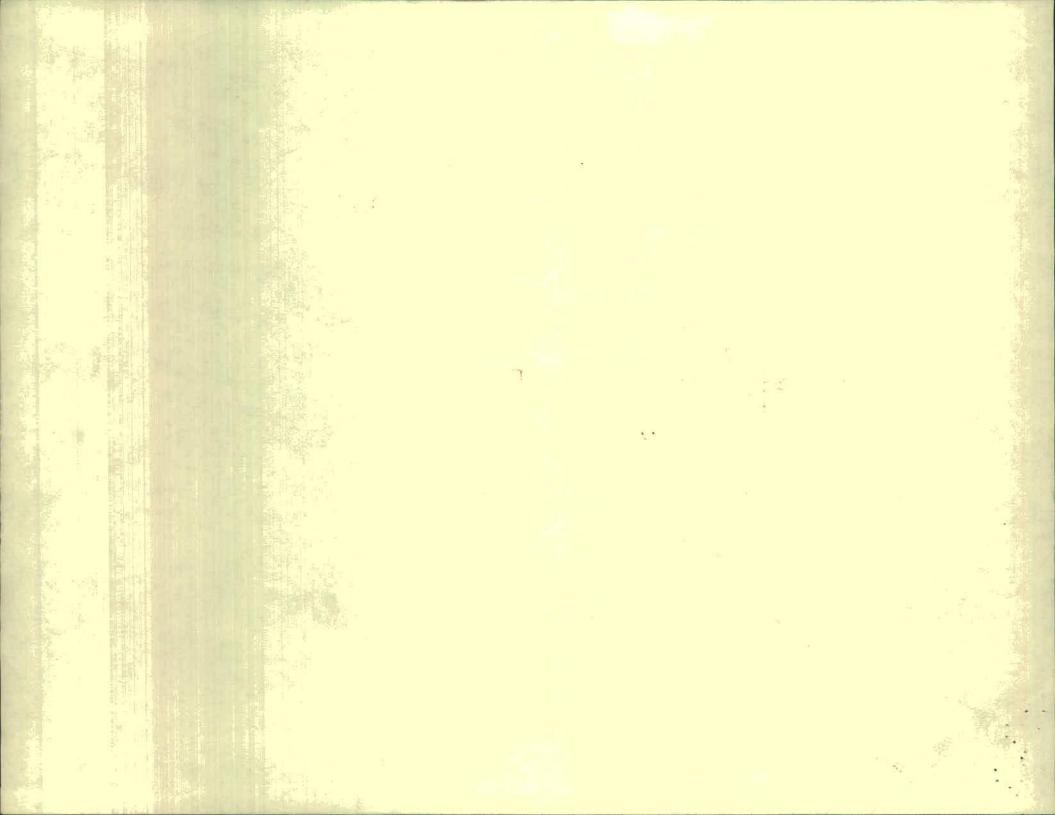
Checked by AVG Free Edition.

Version: 7.5.472 / Virus Database: 269.8.11/838 - Release Date: 6/7/2007 2:21 PM

No virus found in this outgoing message.

Checked by AVG Free Edition.

Version: 7.5.472 / Virus Database: 269.8.11/838 - Release Date: 6/7/2007 2:21 PM



Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval- QC Inspector
07,06.1	195	PRESS FIT DZ808 APTER POWDER COAT, Z PLACES. B/N B 28600	FF	07-06-11	1	951 47	Parco 12
7.0611		INSTALL ONLY[32] MSZUKURADY RIVERS INSTEAD OF 36.		on dell		(7.66.11 (05) 642	/2000-10
Part No: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							
WORK ORDER NON-CONFORMANCE (NCR)							

NCR:	327	(8) WG	ORK OR	DER NON-CONFORMANCE	(NCR)			
	0755	Description of NC	Corrective Action Section B			Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
07-06-11	14.0	arivets to were grindled on the heads, when the Magraband was heing removed from the D3560-041 Arm.	() - (05/042)	- Drill and remove rivets And replace Drill a hole in the aft cap to remove debris Fill hole with weld i grind flush, per asion!	JE:	10206-11	T051042	10706-11
			•					

NOTE: Date & initial all entries



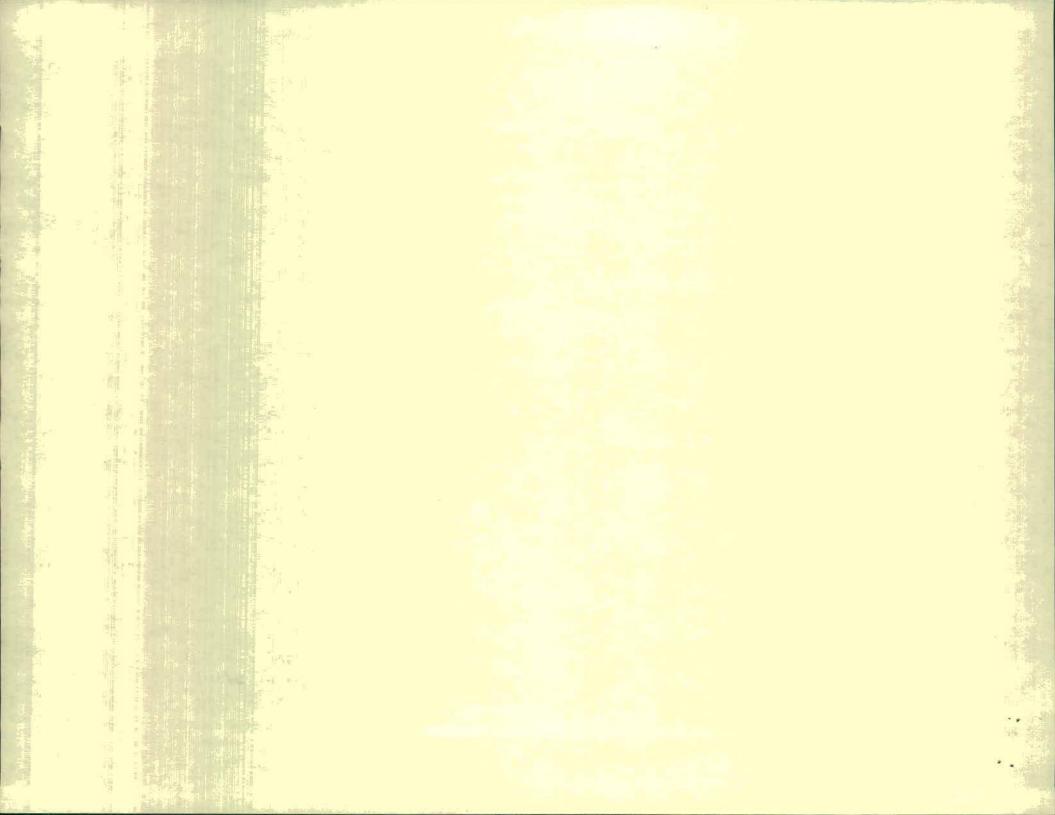
Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
J206.11	12	MAGAVABUNI) STEP PRIOR TO POWDER CONT. REF OS EMAIL	Re	87-36-11		951042	1000-12				

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
			QA: N/C Closed:	Date:

NCR:		W	ORK OR	DER NON-CONFORMANO	CE (NCR)			
DATE STEP	Description of NC		Corrective Action Section B		Verification	Approval	A	
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector
		F Salar 1						

NOTE: Date & initial all entries





From:

David Shepherd [dshepherd@dartaero.com]

Sent:

June 11, 2007 2:33 PM

To:

'Chris Provencal'

Subject:

FW: Request for W/O change D3562-041/-042

Attachments: wo_change_D3562.jpg

Acceptable deviation.

David

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: Monday, June 11, 2007 11:27 AM To: David Shepherd (David Shepherd)

Subject: Request for W/O change D3562-041/-042

David,

For the D3562-041/-042 step weldment, when doing the actual assembly, it was discovered that the rivets on either side of the arm cannot be installed because of problems fitting the rivet tool. Total number of rivets will not be 32 per step assembly (was 36).

A picture is attaching which shows which 4 rivets are to be removed. Is this acceptable.

-Chris

No virus found in this incoming message.

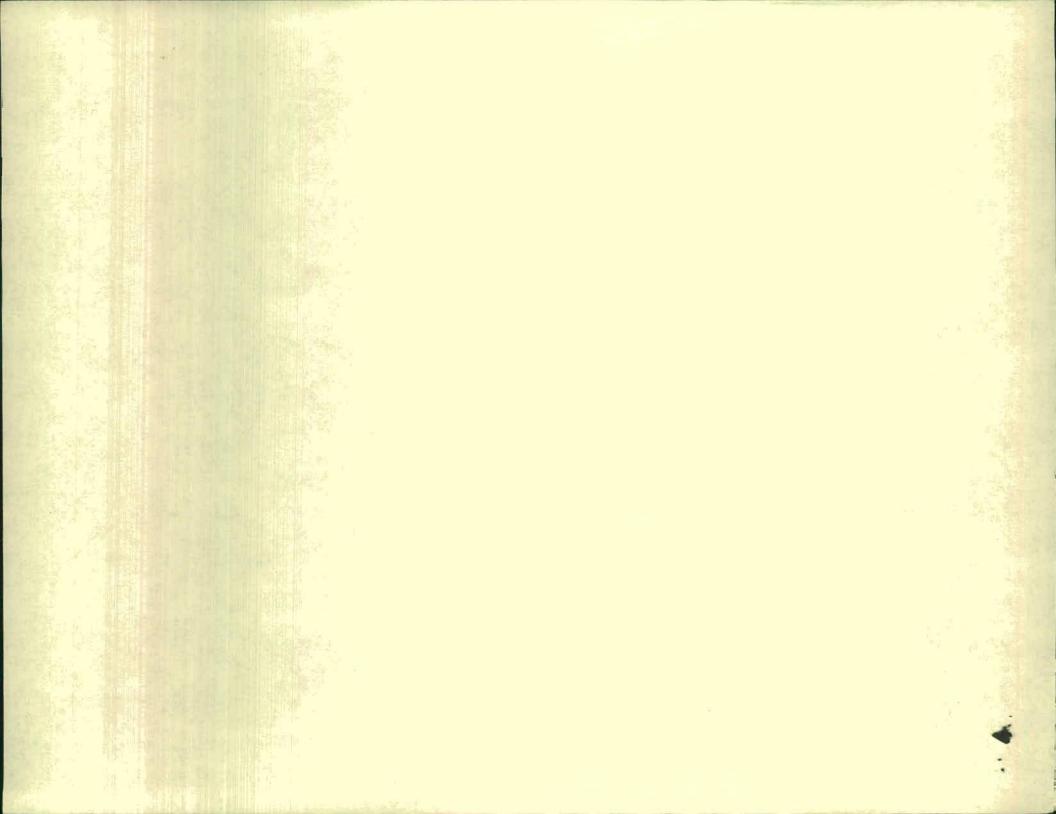
Checked by AVG Free Edition.

Version: 7.5.472 / Virus Database: 269.8.13/843 - Release Date: 6/10/2007 1:39 PM

No virus found in this outgoing message.

Checked by AVG Free Edition.

Version: 7.5.472 / Virus Database: 269.8.13/843 - Release Date: 6/10/2007 1:39 PM



From: David Shepherd [dshepherd@dartaero.com]

Sent: June 5, 2007 5:18 PM

To: 'Chris Provencal'
Subject: RE: D3562-041/-042

As we have discussed previously, this is acceptable as long as the Magnabond doesn't break down.

David

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: Tuesday, June 05, 2007 11:00 AM **To:** David Shepherd (David Shepherd)

Subject: D3562-041/-042

David,

For the D3562-041/-042 step weldment, as discussed. They want to switch from Sikaflex to Magnabond, and powder coat after final assembly.

As part of this change, the D3560-XX arms won't be powder coated, and the D2808 Bushing won't be assembled until after final assembly of the step weldment.

Since this is the first time trying this, we will ensure that the steps are checked after powdercoating in case the Magnabond doesn anything unexpected (eg. bubbling). If we see anything suspect, we will assemble them the old way.

Is this acceptable.

-Chris

No virus found in this incoming message.

Checked by AVG Free Edition.

Version: 7.5.472 / Virus Database: 269.8.9/834 - Release Date: 6/5/2007 2:38 PM

No virus found in this outgoing message.

Checked by AVG Free Edition.

Version: 7.5.472 / Virus Database: 269.8.9/834 - Release Date: 6/5/2007 2:38 PM

